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OFFICIAL JOURNAL  
OF THE  
PLANT VARIETY  
PROTECTION OFFICE



## PREFACE

The Plant Variety Protection Act, (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office  
Grain Division, AMS  
U.S. Department of Agriculture  
6525 Belcrest Road  
Hyattsville, Maryland 20782

This issue covers the period from April 1 through June 30, 1974.

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APPLICATIONS RECEIVED  
from April 1, 1974, to June 30, 1974

Application No.	Date	Name of applicant(s)	Name of kind	Name of variety (or identification)
7400082	4/3/74	Asgrow Seed Co.	bean	XP B46
7400083	"	" "	bean	XP B47
7400084	"	" "	pea	Ivy (XPF 3007)
7400085	"	" "	pea	Regent (XPF 3008)
7400086	4/4/74	(Permission to publish not rec'd)	wheat	Tam W-103
7400087	4/8/74	World Seeds	wheat	Profit 75
**7400088	4/15/74	Growers Seed Assn.	cotton	Stripper 31A (3)
**7400089	"	" "	cotton	GSA 71 (3)
7400090	4/17/74	(Permission to publish not rec'd)	corn	AKW
7400091	"	" "	corn	APX
7400092	"	" "	corn	BLS
7400093	"	" "	corn	GOW
**7400094	4/19/74	Soybean Research Foundation	soybean	SRF 174-AT (3)
7400095	4/29/74	(Permission to publish not rec'd)	lettuce	Citation
7400096	4/22/74	Dunn Seed Farms	cotton	Dunn 120
**7400097	5/1/74	Lynnville Seed Co.	soybean	3034 (3)
**7400098	5/2/74	Mississippi Foundation Seed Stocks	cowpea	Magnolia Blackeye (3)
7400099	6/3/74	(Permission to publish not rec'd)	wheat	Yield 1
7400100	"	" "	corn	Big Red
7400101	"	" "	wheat	Baca
7400102	6/11/74	" "	corn	Van Horn V314
7400103	6/19/74	" "	soybean	Viking
7400104	6/25/74	" "	bean	Lake Largo
7400105	6/27/74	" "	soybean	Evans
7400106	"	" "	soybean	Hodgson

\*\*To be sold by variety name only as a class of certified seed.  
( ) No. of generations of certified seed permitted beyond breeder's seed.

# AMENDMENTS

<u>Application No.</u>	<u>Date</u>	<u>Name of applicant(s)</u>	<u>Name of kind</u>	<u>Name of variety (or identification)</u>
72035	10/1/71	Waller Flower Seed Co.	nasturtium	Whirllybird Scarlet
72145	6/19/72	FMC Corporation	bean	Gem
**73074	3/15/73	World Seeds, Inc.	durum wheat	W.S. 3 (3)
73095	6/13/73	Pure Line Seeds, Inc.	pea	Aspen
7400039	9/26/73	Frontier Hybrids	wheat	Montezuma
**7400041	12/21/73	National Seed Development Org. Ltd. (England)	ryegrass	Sabel (3)
**7400042	"	National Seed Development Org. Ltd. (England)	ryegrass	PXB 69/71 (3)
7400059	2/6/74	Ferry-Morse Seed Co.	bean	Petite
7400060	"	" " "	bean	Tenderblue
**7400074	3/13/73	Loft's Pedigreed Seeds	Kentucky bluegrass	Ram 1 (2)
7400075	"	Rice Researchers, Inc.	rice	Tsuri Mai
7400076	"	" " "	rice	Ampec
7400077	"	" " "	rice	Kokubelle
7400079	3/26/74	Agripro, Inc.	soybean	Agripro 27 (EX 7710)
7400080	"	" " "	soybean	Agripro 25 (EX 50525)
7400081	"	" " "	soybean	Pontiac (EX 5117)

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# CERTIFICATES ISSUED

<u>Certificate No.</u>	<u>Issue date</u>	<u>Owner</u>	<u>Name of kind</u>	<u>Name of variety</u>
**7100042	April 10, 1974	McNair Seed Co.	soybean	McNair 800
Novelty: 'McNair 800' at maturity is similar to 'Davis'; however, 'McNair 800' has smaller seeds and plants are 5 cm shorter with more lateral branching during the first 3 to 8 weeks of growth. The pods of 'McNair 800' mature 4 days later. 'McNair 800' is susceptible to phytophthora root rot; whereas, 'Davis' is resistant.				
7300017	April 25, 1974	Farmers Forage Research Corp.	soybean	FFR 666
Novelty: 'FFR 666' most closely resembles the varieties 'Dyer' and 'Hill.' Maturity of 'FFR 666' is 14 to 16 days later than 'Dyer' and 24 days later than 'Hill'; plant height is 30 cm shorter than 'Dyer' and 15 cm shorter than 'Hill.' 'FFR 666' and 'Hill' are susceptible to cyst and root knot nematodes; whereas, 'Dyer' is resistant.				
7200041	April 25, 1974	Stubbs Seed Service, Inc.	pea	Gentry
Novelty: 'Gentry' most closely resembles 'Target' but 'Gentry' differs by having pointed pods and smaller (17 vs 22 gms/100), smooth, round seed.				
7300086	May 9, 1974	Rogers Bros. Seed Co.	pea	Cameo
Novelty: 'Cameo' most closely resembles 'Dot' but 'Cameo' has a 5-10 cm shorter vine and bears up to 20 percent triple pods while 'Dot' bears only double and single pods. 'Cameo' averages 10 percent fewer seeds in the first three sieve sizes.				
7400013	May 9, 1974	Moran Seeds, Inc.	lettuce	Calmaria
Novelty: 'Calmaria' most closely resembles 'Calmar' but has a smaller, more solid, compact head and is 3-5 days earlier in maturity when planted May-July in the warmer coastal area of central California. The heads are more uniform in maturity and have slower seed stalk emergence.				
7100100	May 9, 1974	Agway, Inc.	bean	Sinclair Butterwax

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Novelty: 'Sinclair Butterwax' most closely resembles 'Eastern Butterwax.' 'Sinclair Butterwax' is white seeded and round podded; whereas, 'Eastern Butterwax' is black seeded and oval podded.				
7100101	May 9, 1974	Agway, Inc.	pea	Early Market
Novelty: 'Early Market' most closely resembles 'World's Record' but 'Early Market' has pods that average 13 mm longer with two more seeds per pod.				
7300030	May 9, 1974	Morrison Bros. Seed Co.	pea	Aries
Novelty: 'Aries' most closely resembles 'Perfection II' but 'Aries' matures 4 days earlier, has a 13-20 cm shorter vine that elongates 17 percent less under high moisture, and yields 15 percent more seeds at canning stage.				
7100040	May 9, 1974	Asgrow Seed Co.	pea	Mini
Novelty: 'Mini' most closely resembles 'Dot' but matures 10 to 20 days later and has wrinkled rather than dimpled seed that are 20 percent smaller.				
7200025	May 9, 1974	Asgrow Seed Co.	bean	Thor
Novelty: 'Thor' most closely resembles 'Bush Blue Lake 274' and 'Bush Blue Lake Supreme.' 'Thor' is 2 days later than 'Bush Blue Lake 274' and 4 days later than 'Bush Blue Lake Supreme.' Plants of 'Thor' are larger and more sprawling than those of 'Bush Blue Lake Supreme.' Rate of seed development is slower for 'Thor' than for the other two varieties.				
**7200071	May 9, 1974	ACCO Seed Co.	cotton	Paymaster 111-A
Novelty: 'Paymaster 111-A' closely resembles 'Paymaster 111' but 'Paymaster 111-A' possesses fiber that is longer by approximately 1/64 inch.				

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7300008	May 9, 1974	Morrison Bros. Seed Co.	pea	Small Sieve Alsweet
Novelty: 'Small Sieve Alsweet' most closely resembles 'Alsweet' but has a 5-8 cm shorter vine, 22 per-cent more peas in sieve sizes 1-3, and a seed weight of 9-15 gm/100 less.				
7300022	May 9, 1974	Gallatin Valley Seed Co.	bean	Galaslim
Novelty: 'Galaslim' most closely resembles 'Slimgreen'; however, 'Galaslim' is resistant to curly top and Australian 'Summer Death' viruses, has darker green pods, a sturdier bush plant, and less occurrence of transverse cracking of the seeds (6 percent as compared to 86 percent for 'Slimgreen').				
**7200029	May 16, 1974	World Seeds, Inc.	wheat	World Seeds 1809
Novelty: 'World Seeds 1809' is most similar to 'Chris.' 'World Seeds 1809' is 5 days earlier in maturity and 18 to 28 cm shorter than 'Chris.'				
**7400003	May 16, 1974	Soybean Research Foundation	soybean	SRF 307P
Novelty: 'SRF 307P' is similar to 'SRF 307B' with the exception that 'SRF 307P' is resistant to phytophthora root rot, Race 1, while 'SRF 307B' is susceptible.				
7400020	May 16, 1974	W. Brotherton Seed Co.	pea	Conway
Novelty: 'Conway' most closely resembles 'Puget' but 'Conway' is resistant to fusarium wilt, race 5, and matures 4-5 days later.				
7100020	May 21, 1974	W. Brotherton Seed Co.	pea	Corfu
Novelty: 'Corfu' most closely resembles 'Puget' but has light canning type seeds that contrast with the dark freezing type seeds of 'Puget.'				
7100034	May 21, 1974	Keystone Seed Co.	bean	Lake Superior
Novelty: 'Lake Superior' most closely resembles 'Lake Geneva'; however, 'Lake Superior' pod color is lighter green, plants are larger, and center leaflets are smaller.				
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7200024	May 21, 1974	Asgrow Seed Co.	bean	Pico
Novelty: A combination of short pods (11 cm long) and small diameter (8 mm) Blue Lake type pods distinguishes 'Pico' from other bean varieties.				
7200026	May 21, 1974	Asgrow Seed Co.	bean	Bonanza Wax
Novelty: 'Bonanza Wax' is most similar to 'Earliwax' and 'Midas.' Compared to 'Earliwax' 'Bonanza Wax' is 2-3 days later, has a shorter, more slender pod, a taller plant, smaller seeds, and a slower rate of seed development. Compared to 'Midas,' 'Bonanza Wax' is about 2-3 days earlier, has a shorter plant, a shorter pod, and has a wider range of adaptation.				
7200068	May 21, 1974	Keystone Seed Co.	bean	Lake Geneva
Novelty: 'Lake Geneva' most closely resembles 'Lake Superior' but differs from 'Lake Superior' by having darker green pods, smaller plants, and larger center leaflets.				
**7200089	June 10, 1974	J. H. Lambright	cotton	Lambright X-15-3-A
Novelty: 'Lambright X-15-3-A' is most similar to its one parent 'Lambright X-15-3' but differs from 'Lambright X-15-3' in having lighter green leaves, is a more compact plant with shorter fruiting branches, has higher resistance to bacterial blight, races 1 and 2, and variants 5 and 6, has 1.3 grams smaller bolls, fiber is 0.06 inches longer, has 20,000 PSI stronger fiber, and sets fruit higher off the ground.				
**7200091	June 10, 1974	J. H. Lambright	cotton	Lambright X-15-4
Novelty: 'Lambright X-15-4' is most similar to 'Lambright 123-BR-1' except that 'Lambright X-15-4' has 0.91 grams larger bolls, fiber is 0.06 inches longer, has 22,000 PSI stronger fiber; is 4 inches taller, more erect and sets fruit higher off the ground; and is resistant to verticillium and fusarium wilt, ascochyta blight, and anthracnose.				

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**7200092	June 10, 1974	J. H. Lambright	cotton	Lambright GL-4
Novelty: 'Lambright GL-4' is most similar to 'Lambright X-15-4' except 'Lambright GL-4' is free of gossypol, is 4 inches shorter and stem is ascending; has virescent yellow leaves, and is susceptible to verticillium and fusarium wilt; 'Lambright X-15-4' has erect stems, dark green leaves, and is resistant to verticillium and fusarium wilt.				
7400047	June 10, 1974	Charter Seed Co.	bean	White Seeded Provider
Novelty: 'White Seeded Provider' is most similar to 'Provider.' The major difference is that 'Provider' has colored seeds. 'White Seeded Provider' plants have a more upright orientation of top leaves and pods have a slower senescence.				
7100091	June 10, 1974	Ferry-Morse Seed Co.	bean	Gator Green 15
Novelty: 'Gator Green 15' most closely resembles 'Sprite.' However, pods of 'Gator Green 15' are rounder, 3 cm longer, and are more slender.				
7400021	June 10, 1974	Asgrow Seed Co.	bean	Gina
Novelty: 'Gina' most closely resembles 'Roma' and 'Bush Romano 14 A.' Pods of 'Gina' are wider and thicker than 'Bush Romano 14 A' and have thicker flesh than pods of 'Roma.' Processed pods of 'Gina' are bright-colored and firm fleshed with a flavor similar to 'Tendercrop'; whereas, 'Bush Romano 14 A' and 'Roma' processed pods have a dull, soft flesh with a flavor similar to pole 'Romano.'				
7100093	June 10, 1974	Ferry-Morse Seed Co.	bean	Bush Romano 71
Novelty: 'Bush Romano 71' is most similar to 'Bush Romano 14'; however, 'Bush Romano 71' plants are 12 cm taller, pods are 1.6 cm longer, and seeds are uniformly vinaceous-cinnamon; whereas, some 'Bush Romano 14' seeds are vinaceous-cinnamon with white markings.				

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7300023	June 10, 1974	Gallatin Valley Seed Co.	bean	Blue Lake GV 2
Novelty: 'Blue Lake GV 2' is similar to 'Bush Blue Lake 274.' 'Blue Lake GV 2' differs from 'Bush Blue Lake 274' by having a sturdier, more erect plant habit; is 3-4 days earlier in maturity; has lighter green foliage; and pods have a significantly longer spur.				
7200067	June 19, 1974	Morrison Bros. Seed Co.	pea	Alsweet II
Novelty: 'Alsweet II' most closely resembles 'Alsweet AAL5' but differs by maturing 2 days earlier, having a 15 cm shorter vine, bearing double rather than single pods, with peas averaging 2.32 sieve size compared with 3.05 at 100 TDR.				
7400014	June 19, 1974	Moran Seed Co.	lettuce	Cal K-60
Novelty: 'Cal K-60' most closely resembles 'Montemar' but differs by having a lighter green plant and head color, maturing 1-2 days earlier for spring harvest and 2-3 days earlier for summer harvest and developing less puffy heads during high summer temperatures.				
7400071	June 19, 1974	Moran Seed Co.	lettuce	Cabrillo
Novelty: 'Cabrillo' most closely resembles 'Mesa 659' but matures 3-5 days later and has a higher degree of tolerance to big vein.				
7100039	June 20, 1974	Asgrow Seed Co.	pea	Beacon
Novelty: 'Beacon' most closely resembles 'Jet' and 'Mars.' It differs from 'Mars' by having darker green peas. 'Beacon' differs from both varieties by having an average sieve size of 2.94 compared with 3.92 and 4.60, respectively, for the other varieties.				
*7100090	June 20, 1974	McNair Seed Co.	cotton	McNair 210
Novelty: 'McNair 210' most closely resembles 'Coker 310.' 'McNair 210' is different from 'Coker 310' in (1) lint percent, 'McNair 210' = 37.8 percent, 'Coker 310' = 41.6 percent; (2) 2.5 span length,				

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<p>'McNair 210' = 1.11 inches, 'Coker 310' = 1.16 inches; (3) micronaire, 'McNair 210' = 4.6, 'Coker 310' = 4.9; (4) strength (PSI) 'McNair 210' = 89,700, 'Coker 310' = 83,800.</p>				
7100097	June 20, 1974	Ferry-Morse Seed Co.	bean	Rainier
<p>Novelty: 'Rainier' most closely resembles 'Green Lake 5A.' However, 'Rainier' exhibits a faster rate of seedling emergence, more vigorous seedling growth, slightly earlier flowering, slightly stronger plant habit, less top flowering, a less creaseback, rounder pod, and has a higher yield potential.</p>				
7200027	June 20, 1974	Asgrow Seed Co.	pea	Charger
<p>Novelty: 'Charger' most closely resembles 'Champ' but matures 2 days earlier, is 7 cm shorter in plant height, and has higher tolerance to root rot.</p>				
7300021	June 20, 1974	Gallatin Valley Seed Co.	bean	Valgold
<p>Novelty: 'Valgold' is most similar to 'Kinghorn Wax.' However, 'Valgold' plants are shorter and its pods have a smaller sieve size. 'Valgold' is resistant to common bean mosaic, curly top, and Australian "Summer Death" diseases.</p>				
7300026	June 24, 1974	Asgrow Seed Co.	bean	Bush Blue Lake Supreme
<p>Novelty: 'Bush Blue Lake Supreme' most closely resembles 'Bush Blue Lake 274.' However, 'Bush Blue Lake Supreme' pods mature 3-4 days earlier, plants are more erect, and pods are shorter and thicker.</p>				
7100029	June 24, 1974	Keystone Seed Co.	bean	Sunrise
<p>Novelty: 'Sunrise' most closely resembles 'Resistant Kinghorn Wax.' However, 'Sunrise' pods mature 4 days earlier, seeds are smaller, and seeds have a very faint yellow pigment around the hilum.</p>				

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7200021	June 24, 1974	Rogers Bros. Seed Co.	pea	Medalist
Novelty: 'Medalist' most closely resembles 'Eureka' but differs by maturing 1-2 days earlier, having a 5.3 cm shorter vine, having 10 percent more double pods, having twice the percentage of peas in sieve sizes 1-3, and by being resistant to near wilt and tolerant to streak virus.				
7400015	June 24, 1974	Harnish-Brinker and Marvin's Seed	lettuce	Winterhaven
Novelty: 'Winterhaven' most closely resembles 'Vanguard' but differs by maturing 5-8 days earlier, having a planting season beginning 5 days earlier and ending 3 days later, having heads lighter green that weigh 7 lbs. per carton more. 'Winterhaven' bolts 15-20 days later with seed stalk 14.72 cm taller than 'Vanguard' and has seed 49 gm/1000 heavier.				
7200018	June 24, 1974	Lankart Seed Farm	cotton	LX 571
Novelty: 'LX 571' most closely resembles 'Lankart Selection 57' from which it was selected except that 'LX 571' germinates 2 days earlier, matures 1 week earlier, has a 3/32 inch (32-34 versus 28-32/32) longer staple length, a 13,500 P.S.I. stronger (88-92,000 versus 73-80,000) fiber, and a medium leaf versus a very large leaf, and medium-dense versus dense foliage.				
**7200101	June 28, 1974	Coker's Pedigreed Seed Co.	cotton	Coker 5110
Novelty: 'Coker 5110' most closely resembles 'Coker 310' except it matures 6-8 days later, is more tolerant of verticillium wilt, is more drought tolerant, has a .04 inch shorter fiber, and a 1-2 percent lower lint percent.				
**7200144	June 28, 1974	Funk Seeds International	wheat	W-332
Novelty: 'W 332' most closely resembles 'Scout' except it is more resistant to leaf rust and is 2 days later in maturity.				
**7300103	June 28, 1974	ACCO Seed Co.	cotton	Paymaster Dwarf
Novelty: 'Paymaster Dwarf' is 13 cm shorter than 'Paymaster 18,' one of several shorter stripper varieties: **To be sold by variety name only as a class of certified seed.				



## GENERAL INFORMATION

### Experiment Station Varieties

USDA cooperative research agreements for the development of new plant varieties are subject to the provisions of 7 U.S.C. 427i which read in part, as follows:

"Any contracts made pursuant to this authority shall contain requirements making the result of research and investigations available to the public through dedication, assignment to the government, or such other means as the Secretary shall determine."

This provision has historically been interpreted to require (1) Government control of research results; or (2) an agreement by the contractor to make the research results available to the public on a nonexclusive, royalty-free basis.

This interpretation is consistent with the "inventions" provision in all USDA cooperative research agreements.

The legal counsel in the Department has concluded that the parties to a USDA cooperative research agreement may agree (1) that the Government shall own the variety, or (2) that the Cooperator shall own the variety or (3) that it shall be owned jointly. In (2) and (3) above, the cooperator must agree to waive its ownership rights in accordance with section 83(a) of the Plant Variety Protection Act and the variety must be made available to the public on a nonexclusive, royalty-free basis.

The waiver does not limit the right of experiment stations to specify that protected varieties are to be sold by variety name only as a class of certified seed.

Experiment stations subject to this ruling will be asked to authorize the Plant Variety Protection Office to issue certificates of plant variety protection in conformance with the cooperative research agreements.

### Progress Report

The U.S. Department of Agriculture has issued 100 plant variety protection certificates since inception of a new service giving exclusive rights to plant developers to grow and sell their novel varieties of seed-reproduced plants.

Issued under authority of the Plant Variety Protection Act, a law enacted in December 1970, the 100 certificates went to 35 different seed firms, research foundations and state universities for new varieties of lettuce, soybeans, wheat, cotton, beans, peas, and asters. An additional 305 applications, involving 57 kinds of seed-reproduced plants were pending actions in the Plant Variety Protection Office of USDA's Agricultural Marketing Service as of July 1, 1974.

Computers are used by the Plant Variety Protection Office to help determine if a variety is new. This concept has attracted worldwide attention to this USDA program. Under the system, a computer memory bank is used to compare an application against all known past and present varieties.



The system uses descriptions, contained in available literature of all known varieties for a given crop which is stored in the computer. The computer is programmed by a Plant Variety Protection Office Examiner to print out detailed comparative descriptions of varieties that are most similar to the new variety.

The Examiner compares the characteristics of these similar varieties and determines whether the applicant's variety is new and entitled to a certificate of plant variety protection.

The work involved in storing computer descriptions to process one application on one crop may be as great as if 50 applications were filed on the same crop. For this reason, only six certificates were issued in the first two years of the program's operation. Nine major crops are now fully computerized.

As variety descriptions for each crop are stored in the computer, the issuance of certificates rapidly speeds up for that kind of crop. Eventually, if applications are properly filed on the forms, and the computer storage for a given crop is completed, a decision as to whether or not a variety is new should be made within three months after the application is filed. Considerable progress is expected by PVP office examiners in the processing of applications during the next year.

#### UPOV

Mr. John C. Blum, Associate Administrator, Agricultural Marketing Service, and Mr. Stanley F. Rollin, Commissioner, Plant Variety Protection Office, have been invited by Mr. Arpad Bogsch, Secretary General, International Union for the Protection of New Plant Varieties (UPOV), to attend a meeting in Geneva, Switzerland, October 21-23, 1974. Among other related subjects, the agenda will include a discussion concerning some of the UPOV requirements and how these requirements may interfere with the United States joining the UPOV convention. Some of the topics that will be discussed are:

1. The issuance of plant patents and certificates of protection on the same species.
2. Methods used to examine applications to determine novelty.
3. The length of time for protection of species.
4. Time limitations concerned with applying for variety protection.
5. The varietal nomenclature requirement.
6. The cost of membership.
7. The requirement that potato varieties be protected within 8 years after joining UPOV. (Potato varieties are not protected by the Patent Office or PVPO).

UNITED STATES  
DEPARTMENT OF AGRICULTURE  
Agricultural Marketing Service  
Grain Division, Plant Variety Protection Office  
6525 Belcrest Road  
Hyattsville, Maryland 20782

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